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SECOND SUPPLEMENT TO TABULATION OF REPORTS PREPARED BY THE MINING RESEARCH CENTRE, 1967

by

D. M. Varette

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SECTION 1

DR FMP NO.

67/1 "Evaluation of Chalmersdale Crusher for Norton Company" by R.O. Tervo.

67/2 "Backfill for Underground Mining Operations, Part I. Backfill Techniques Used Outside Canada" by A.S. Romaniuk.

67/6 "Comparison of Dust Sampling Instruments: IV - Interim Report on Mica Dust" by G. Knight, G.S. Rajhans and W. Stefanich.

67/7 "Results of Rockburst Investigations at Director Mine, St. Lawrence, Newfoundland, February-March 1966" by T.S. Cochrane.

67/8 "Development of Stress Analysis by Photoelasticity for Slopes" by M. Gyenge and D.F. Coates.

67/9 "Rock Breakage Research Program" by R.O. Tervo.

67/15 "Tentative Specifications - Test for Percolation Rate or Coefficient of Permeability of Fill" by D.F. Coates and Y.S. Yu.

67/16 "Vacuum Impact Tester for Rock Breakage Research Program" by R.O. Tervo.

67/17 "Geological Background of Roofbolting Performance at Balmer North Mine, Michel, B.C." by T. Vanderzee.

67/20 "Operating Instructions and Field Use for the Baldwin Type-N Portable Strain Indicator" by H.B. Montone.

67/21 "Some Notes on the Plastic Deformation of Galena Aggregates" by K.D. Lyall.

67/24 "Ground Control Research Program 1967" by G. Zahary.

67/25 "Some Geological Aspects of Roofbolting at the Wilson Mine, Canmore, Alberta" by T.J. Vanderzee.

First Supplement to Tabulation of Reports Prepared by Mining Research 1962-1965-1966 Incl. by D.M. Valiette (Int Dist)

DR FMP NO.

67/30 "A Computer Program for Checking Input Coordinates by Plotting" by D.F. Coates.

67/35 "Pillar Stress Measurements In Situ with the USBM Borehole Deformation Meter in the Rio Algom Nordic Mine at Elliot Lake" by F. Grant.

67/36 "A Computer Program for Simulating the Stress Distribution Around Irregular Mining Openings in Non-Homogeneous Ground Subjected to Gravitational and Tectonic Forces" by K. Waranica and D.F. Coates.

67/37 "A Computer Program for Calculating Principal Stresses in Photoelasticity" by M. Gyenge.

67/38 "Grain Growth in Sulphides. Part I: Initial Experiments on Lead Sulphide" by K.D. Lyall.

67/41 "Third Supplement to Bibliography of Canadian Contributions in the Field of Rock Mechanics (for January to December 1966)" by D.F. Coates.

67/42 "Assembly of MRL Rosette Strain Cell" by H.B. Montone.

67/43 "Experimental Study of the Dynamic Tensile Strength of Rocks" by M. Terada and C. Tanimoto.

67/48 "A Talk at the C.I.M. Meeting, Elliot Lake, March 13 on Trends in Comminution Research for the Mining Industry" by R.O. Tervo.

67/49 "Computer Program to Determine Stress Distributions Resulting from Detonation of an Explosive Charge in the Vicinity of a Free Face" by K. Sassa and G.E. Larocque.

67/52 "A Computer Program for Calculating Biaxial Stresses from Borehole Strain Cells" by D.F. Coates.

67/56 "Laboratory Testing of the USBM Explosive Anchor" by D.G.F. Hedley and W. Zawadski.

TRANSLATIONS

DR FMP NO.

67/11 "Traduction des Titres des Figures et de l'Appendice A - Symboles et Abbreviations du Mines Branch Monograph 874". (Translated by C.A. Vary, assisted by Prof. B. Ladanyi).

67/33 "Rock-Mechanics Field Measurements in North Swedish Sulphide Mines" by H.K. Helfrich and N. Krauland. (Translated by L.B. Geller).

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66/112 "A Comparison of Two Methods for Measuring Stress in Rock" by W.L. van Heerden and F. Grant. Presented at the 4th Canadian Rock Mechanics Symposium, March 29-30, 1967, Ottawa.

66/197 "Field Blasting Studies" by G.E. Larocque, K. Sassa, J.A. Darling and D.F. Coates. Presented at the 4th Canadian Rock Mechanics Symposium, March 29-30, 1967, Ottawa.

67/10 "An Appraisal of Convergence Measurements in Salt Mines" by D.G.F. Hedley. Presented at the 4th Canadian Rock Mechanics Symposium, March 29-30, 1967, Ottawa.

67/18 "The Effect of Stoping on the Stability of a Remote Pre-Existing Tunnel" by W.D. Ortlepp. Prepared for presentation at the 4th Canadian Rock Mechanics Symposium, March 29-30, 1967, Ottawa.

67/28 "Analysis of Accuracy in the Determination of the Ground Stress Tensor by Means of Borehole Devices" by W.M. Gray and N.A. Toews. Presented at the Ninth Rock Mechanics Symposium, Golden, Colorado, April 17-19, 1967.

DR FMP NO.

✓ 67/44 "Mines Branch Dust Laboratory" by G. Knight and T.S. Cochrane. Presented at the Mines Accident Prevention Association of Ontario Annual Conference, May 25-27, 1967, Toronto.

✓ 66/182 "Underground Development of Metallic Orebodies" by M.A. Twidale. Presented at the 5th International Mining Congress, July 1967, Moscow, U.S.S.R.

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✓ R 192 "The Analysis of Stress for the Prediction of Crater Boundaries" by K. Sassa, G.E. Larocque, D.F. Coates and J.A. Darling.

✓ R 193 "Pillar Loading. Part IV: Inclined Workings" by D.F. Coates.

✓ TB 88 (67/37) "A Computer Program for Calculating Principal Stresses in Photoelasticity" by M. Gyenge.

✓ IC 196 "Traduction du CONTENU, des TITRES DES SCHEMAS, de L'APPENDICE A, DES SYMBOLES ET ABBREVIATIONS et du GLOSSAIRE DE L'APPENDICE B du Mines Branch Monograph 874 'Rock Mechanics Principles' by D.F. Coates. Traduit par C.A. Vary et M.D. Everell.

✓ 66/52 "Roof Bolting Effectiveness at Michel" by D.F. Coates and L.M. Dwarkin. Bull. CIMM, Vol. 60, No. 659, March 1967.

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✓ 67/4 "Research in Improved Methods of Rock Breakage" by L.B. Geller. Trans. Inst. Min. & Met., Vol. 76, pp. A105-A124, July 1967.

SECTION 2

MR NO.

67/1 "Blasting Research Field Report, 1966" by G.E. Larocque and J.A. Darling.

67/2 "A Study of Roof Problems in Balmer North Mine, Michel, B.C." by M. Aslam.

67/3 "Some Observations on Grain Growth in Lead Sulfide" by K.D. Lyall.

67/4 "Research in Improved Methods of Rock Breakage" by L.B. Geller.

67/5 "Computer Study on Predicting Actual Craters" by M. Terada.

67/6 "Development of a Photographic Technique for Recording Data Obtained from Experimental Testing with a Photo-elastic Model Material" by C.A. Vary.

67/7 "Theoretical Consideration on the Attenuation of the Stress Wave Induced in Rock by an Explosion" by M. Terada and C. Tanimoto.

67/8 "Observations of Mine Roofs at Balmer North, Following the Major Explosion of April 3, 1967, Crows Nest Industries Ltd., Natal, B.C." by A. St. Louis.

67/9 "Stress Measurements at Elliot Lake - In Situ Measurements in Stope Pillars using Encapsulated 45° Rosette Strain Cells" by F. Grant.

67/10 "Hilton Mine - North Face (South Bank) Proposed Stability Investigations" by K. Barron.

67/11 "Modulus of Rigidity from Pressuremeter Tests" by G. Zahary.

67/12 "Laboratory Calibration of an Electrical-Mechanical Multi-Wire Extensometer" by D.G.F. Hedley.

MR NO.

67/13 "Diametrical Compression Tests for the Elliot Lake Strain-Relief Overcoring Work" by Y.S. Yu.

67/14 "Development of the Canadian Advisory Committee on Rock Mechanics" by D.F. Coates.

67/15 "First Lecture on Comminution at Ecole Polytechnique on Feb. 6, 1967" by R.O. Tervo.

67/16 "Second Lecture on Comminution at Ecole Polytechnique on Feb. 20, 1967" by R.O. Tervo.

67/17 "A New MRL Strain Cell Installing Tool" by H.B. Montone.

67/18 "Roof Bolting Studies at the Wilson Mine, Canmore Mines Limited, May-September 1966" by T.S. Cochrane, A. St. Louis and D. Riva.

67/19 "Estimation of Initially Existing Stress Field in Underground Formation" by S. Sakurai and S. Serata, Summary of 4th Symposium on Rock Mechanics, Civil Engineering Institute, Committee on Rock Mechanics, Tokyo, Japan. (Translated by C. Tanimoto, University of Kyoto, formerly with Mining Research Centre).

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67/21 "Portable Dust Measuring Instruments in Industrial Plants" by Wilfried Coenen, Staub-Reinhalt. Luft 26 (1966) No. 10 October, pp. 415-419. (Translated by T.J. Vanderzee).

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67/28 "Comparison of Dust Sampling Instruments: VI. Interim Report on Coal, Silica, Pyrite and Mica Dust Clouds Dispersed in a Jet Mill" by G. Knight, G.S. Rajhans and W. Stefanich.

67/29 "Comparison of Dust Sampling Instruments: VII. Interim Report Listing Dust Measurements in Repeat Experiments with Coal, Silica, Pyrite and Mica" by G. Knight, G.S. Rajhans and W. Stefanich.

67/30 "Samples Examined Under the Explosives Act, Period of October 1/66-March 31/67" by D.A.B. Stevenson.

67/31 "Visit Memoranda" by G. Knight.

67/32 "Rock Mass Features at King Beaver Pit, Asbestos Corporation Limited, Thetford Mines, P.Q." by T.J. Vanderzee.

67/33 "A Method to Determine the Direct Stress Resulting from Detonation of a Row of Column Charges" by G.E. Larocque.

67/34 "An Investigation into Acoustic Methods of Measuring the Load on Rock Bolts" by A. St. Louis and E. Oliver.

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67/35 "Traduction du CONTENU, des TITRES DES SCHEMAS, de L'APPENDICE A, DES SYMBOLES ET ABBREVIATIONS et du GLOSSAIRE DE L'APPENDICE B du Mines Branch Monograph 874 'Rock Mechanics Principles' by D.F. Coates. (Traduit par C.A. Vary et M.D. Everell (avec le concours du Professeur B. Ladanyi, de l'Université Laval et du Professeur D. Gill, de l'Ecole Polytechnique de l'Université de Montréal), Août 1967.

67/36 "Visit to the Explosives Division of Sullivan Mine Cominco, Kimberley, B.C." by J.A. Darling.

67/37 "Visit to Kentau Lead Mine in U.S.S.R., 30 June 1967" by M.A. Twidale.

67/38 "Visit to GAI Combine Mine, U.S.S.R., 4 July 1967" by M.A. Twidale.

67/39 "Visit to Lubin Mine and Mining Institutes, Poland, Aug. 1967" by M.A. Twidale.

67/40 "Comparison of Dust Sampling Instruments: V. Interim Report on Asbestos and Glass Fibre Dust" by G.Knight, G.S. Rajhans and W. Stefanich.

67/41 "Laboratory Dust Chamber: II - Dust Cloud Preparation" by G. Knight and W. Stefanich.

67/42 "Progress Report on Electronic Countings of Konimeter Slides" by G.S. Rajhans.

67/43 "Development and Application of Air Permeability Technique for Measurement of Surface Areas of Dust" by G.S. Rajhans.

67/44 "Computer Program for Theoretical Analysis of Stresses in a Hollow Cylindrical Inclusion" by K. Barron.

67/45 "The Washing of Explosives from Misfired Drill Holes" by J.A. Darling.

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✓67/46	"Effects of the Poisson's Ratio on the Values of Stresses Induced in Rock by an Explosion" by I. Ito and K. Sassa. Translated from Japanese by Dr. M. Terada, NRC Post-doctorate Research Fellow, Kyoto University, Japan. (Suiyokwai-shi, Transactions of the Mining and Metallurgical Alumni Association), Dept. of Mining and Metallurgy, Kyoto University, Japan, Vol. 16, No. 2, Dec. 1966).
✓67/47	"Minutes of the Ninth Meeting of the Canadian Advisory Committee on Rock Mechanics" by K. Barron.
✓67/48	"Stress Measurements in 1109 Pillar, Nordic Mine, Elliot Lake, Ontario" by John E. Udd.
✓67/49	"Progress Report" by D.F. Coates.
✓67/50	"Elaboration of a Method for the Production, Preparation and Loading of Photoelastic Models Used in Stress Analysis Studies" by C.A. Vary.
✓67/51	"Stress Measurements Kerr-Addison Gold Mines" by G. Zahary.
✓67/52	"Measurements of Stresses in the Abutment Zones, Nordic Mine, Rio Algom Mines Limited, Elliot Lake, Ontario" by J.E. Udd and F. Grant.
✓67/53	"Sonic Velocity and Attenuation Measurements at Nordic Mines, Elliot Lake, Ontario" by Brian J. Sinclair.
✓67/54	"Analysis of Grading Effects on Hydraulic and Consolidated Fill" by D.F. Coates and Y.S. Yu.
✓67/55	"A Visit to Giant Yellowknife Mine, 11 September 1967" by M.A. Twidale.
✓67/56	"A Visit to Pine Point Mines Ltd., 13-14 September, 1967" by M.A. Twidale.
✓67/57	"Benefit/Cost of Blasting Research" by A. Dubnie and D.F. Coates.
✓67/58	"Evaluation of Electronic Scanner" by G.S. Rajhans.
✓67/59	"Design Parameters for Borehole Extensometer Measuring Systems" by D.G.F. Hedley.

MR NO.	
67/60	"Proposed Trial Artificial Support System for Rock Slopes at Hilton Mines, Shawville, P.Q." by K. Barron, M. Gyenge and D.F. Coates.
67/61	"Semi-Annual Progress Report, April 1, 1967 to September 30, 1967" edited by D.M. Varette.
67/62	"The Equations of State up to 250 KB of a Magnetite and a Quartzite" by D.F. Coates and M. Aslam.
67/63	"Blasting Research Program 1967/68" by G.E. Larocque and D.F. Coates.
67/64	"Proposed Field Blasting Studies for 1968" by G.E. Larocque.
67/65	"New Cathode Follower System" by F. Kapeller.
67/66	"Report on Field Investigations in the Metal Mines of Newfoundland" by A. Dubnie.
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67/69	"Photoelectric Scanner for the Counting of Discontinuities on Rock Surfaces" by R.C. Parsons and S. Cook.
67/70	"Fracture Systems in the Host Granites at Newfoundland Fluorspar Operations" by R.C. Parsons.
67/71	"Comparison of Dust Sampling Instruments: VI. Interim Report on Coal, Silica, Pyrite and Mica Dust Clouds Dispersed in a Jet Mill and Repeat Experiments" by G. Knight, G.S. Rajhans and W. Stefanich.
67/72	"The Development and Application of an Atomizer for the Production of Dust Clouds with Aggregated Particles" by W. Stefanich and R.C. Tervo.

MR NO.

67/73 "Comparison of Dust Sampling Instruments: IX - Comparison of Microscope Counting Techniques" by W. Stefanich.

67/74 "A Method of Analysis to Determine the Direct Stress Resulting from Detonation of a Row of Column Charges" by G.E. Larocque and B. Ladanyi.

67/75 "Rock Breakage Research Program Review" by R. Tervo.

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2. Roof Bolt Anchorage at Michel Colliery by L.M. Dwarkin,
3. Roof Bolting Practices, Dominion Coal Company Limited, Sydney, N.S. by D. MacFadgen,
4. Discussion - Forum on Roof Bolting, and
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